

FEATURES:

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current - 4.0 A
- High Surge Current Capability
- Designed for Surface Mount Application

MECHANICAL DATA

- Case: UMSB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.234g / 0.00825oz

Marking

| |
|-------------------|
| Marking code |
| MSB40A --- MSB40M |

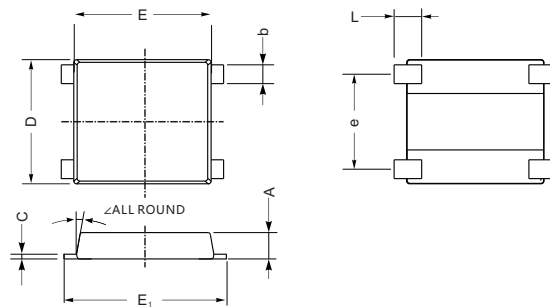
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

4.0 Ampere

UMSB



| UNIT | | A | C | D | E | E ₁ | L | e | b | Z |
|------|-----|-----|------|-----|-----|----------------|------|-----|------|-----|
| mm | max | 1.5 | 0.29 | 7.0 | 7.6 | 8.9 | 1.6 | 5.3 | 1.15 | 10° |
| | min | 1.3 | 0.17 | 6.2 | 7.1 | 8.4 | 1.0 | 4.9 | 0.95 | |
| mil | max | 59 | 12 | 276 | 299 | 350 | 55 | 209 | 45 | |
| | min | 51 | 7 | 244 | 280 | 331 | 31.5 | 193 | 37 | |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
 Single phase half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

| TYPE NUMBER | MSB40A | MSB40B | MSB40D | MSB40G | MSB40J | MSB40K | MSB40M | UNIT | |
|---|--------|--------|--------|--------|--------|--------|--------|------------|------|
| Maximum Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| Maximum RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V | |
| Maximum DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| Maximum Average Forward Rectified Current at Ta=40°C (Note 1) | | | | | | | | 4.0 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | | | | | | | | 9.5 | A |
| Maximum Forward Voltage Drop per Bridge Element at 4.0A | | | | | | | | 1.1 | V |
| Maximum DC Reverse Current Ta=25°C | | | | | | | | 5.0 | µA |
| at Rated DC Blocking Voltage Ta=125°C | | | | | | | | 200 | µA |
| Typical Thermal Resistance R _{JA} (Note 2) | | | | | | | | 50 | °C/W |
| Operating Temperature Range, T _J | | | | | | | | -55 — +150 | °C |
| Storage Temperature Range, T _{STG} | | | | | | | | -55 — +150 | °C |

NOTES: 1. Mounted on P.C. Board.
 2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (MSB40A THRU MBS40M)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

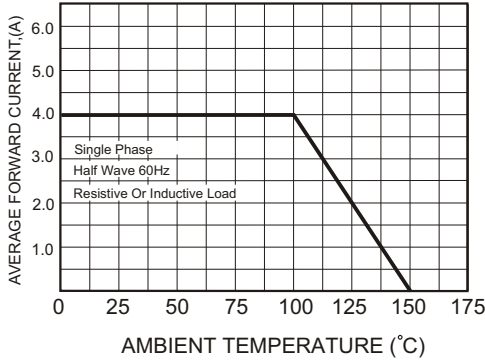


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

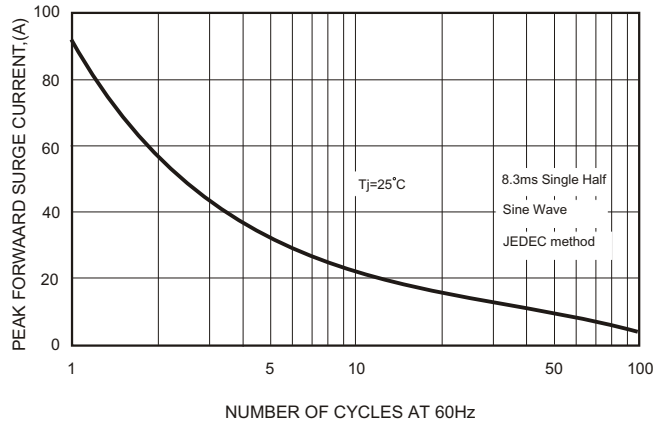


FIG.3-TYPICAL FORWARD CHARACTERISTICS

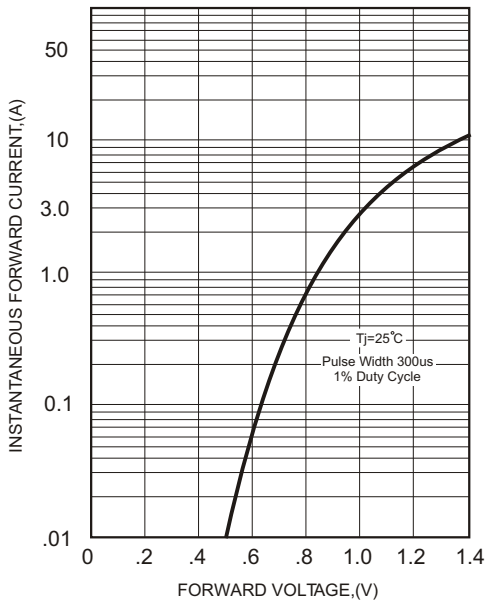
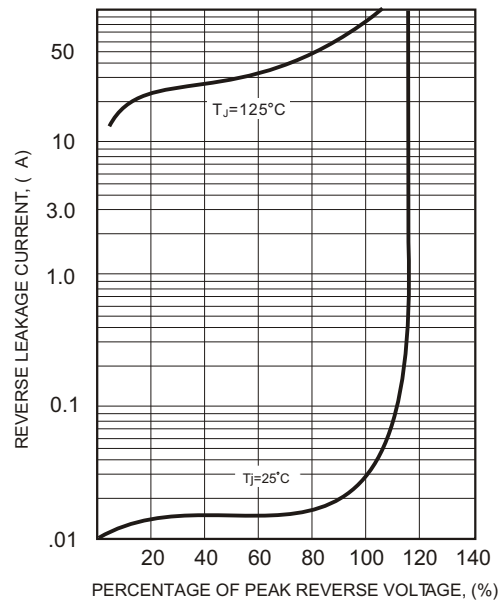


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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